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OFFICE OF ADVANCED ENGINEERING EDUCATION

ENERGETIC CONCEPTS

ONLINE

GRADUATE ENGINEERING DEGREES

Professional Master of Engineering Program

Graduate Certificate in Engineering Program
GO FURTHER: in combining science and engineering to create energetic materials for protection and safety

Energetics at Maryland is a branch of the physical science of mechanics that deals with energy and its transformations. Energetics research is the underpinning of the development of explosives and propellants.

PROFESSIONAL MASTER OF ENGINEERING

REQUIREMENTS
10 COURSES (30 CREDITS)
NO THESIS/RESEARCH
NO COMPREHENSIVE EXAM

GRADUATE CERTIFICATE IN ENGINEERING

REQUIREMENTS
4 CORE COURSES (12 CREDITS)

CORE COURSES and TECHNICAL ELECTIVES

Six courses must be from the Energetics core. Four technical electives may be taken either from the core courses or through other online courses in the Clark School of Engineering (Project Management, Reliability Engineering, or Fire Protection Engineering).

OUR STRENGTHS:

The Center for Energetic Concepts Development is a cooperative research, technology transfer, product development, and science and technology training alliance between the Naval Surface Warfare Center Indian Head Division (IHDIV/NSWC) and The University of Maryland. The master’s program was created to provide advanced education to their research staff.

If you work in one of these areas, a degree in energetic concepts may be for you:

- Research and development in fundamental energetic materials, functionally graded materials and combustion stability
- Design of MEMS and optical fiber based energy interrupter
- MEMS packaging, reliability and failure analysis
- Port safety simulation studies
- Detonation and shock wave physics

APPLICANTS

must have at least a bachelor’s degree in engineering or a closely related field

REQUIREMENTS

3.0 gpa or better
3 letters of reference
Graduate Record Exam is NOT required
TOEFL is required for international students

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DEADLINES

FALL - August 1
SPRING - December 15
SUMMER - May 1

LEARN MORE

WWW.AESEC.UMD.EDU/ONLINE.HTML

CORE COURSES

Shockwave Physics I
Shockwave Physics II
Materials by Design
Production Manufacturing Introduction to MEMS
Engineering Decision Making
Emerging Manufacturing Technology
Chemistry of Energetic Materials
Combustion & Reacting Flows
Energetics Project